

Microbial Techniques for Soil Improvement

 Use and function of Microbes in Agriculture and Organic Wastes Treatments

Lecture by Assoc. Prof. T. Ohwada (Obihiro Univ. of Agriculture)

. June 23 morning at Obihiro University

Extension Activities in Obihiro

- Activities in Agricultural Technique Center of Obihiro City
- Project of high quality compost production

on June 24, morning

Control of Soil Microbes

- By Dr. Daigo Aiuchi (OUAVM)
- June 25

Study Tour in Hokkaido

- June 26 27
- Furano (Soil Museum)
- Biei (Field Survey)

Study and survey visits

- Soil Museum in Kami-Furano
- Soil Profile Investigation in Biei Terrace

June 26

by Dr. Y. Yokoi and Mr. K. Ohbuchi



Soil Museum in Kami-Furano A large soil monolith showing 4 big eruptions

Field survey in Biei







Soil diagnosis for environmentfriendly agriculture in Japan

Development and Extension of Agriculture Technology in Hokkaido

Techniques for Soil Diagnosis and Environmental Conservation

by Hokkaido Prefectural Tokachi Ag. Experimental Station July 1 - 2

Extension Activities in Taisho Village

Soil Diagnosis Project in Taisho Area,
 Obihiro

on July 3

Aquatic Quality Analysis

- Collection and Analysis of stream waters in dairy area and non-dairy area
- Analysis of DO, BOD, SS

By Drs. H. Saba, A. Nakanishi, A. Yoshikane (Hokkai Suiko Consultant Co. Ltd)

at Hokkai Suiko Consultant. Co. July4, July 7

Aquatic Quality Analysis





Aquatic Quality (Lecture)

 Land utilization of Agricultural areas and water quality conservation. Lecture by Assist. Prof. Muneoka (Obihiro University)
 July 7 (morning)

Visit Excellent Farmers in Obihiro

 Farm Management for Upland Crops in Tokachi

Hosono Farm, in Aikoku, Obihiro July 8

Mr. Hosono explains his farm managements (July 8)



Study Tour to

Tsukuba & Tokyo

• July 8-14

Study Tour in Tsukuba & Tokyo

- July 8-11 : Obihiro Tsukuba (Stay in Tsukuba)
- July 11: Tsukuba Tokyo
- July 14: Visit Fujihira Company in Tokyo
- return to Obihiro



Characteristics and problems of tropical soils

 Agriculture and Soil in South East Asia by Dr. Kohyama (National Institute for Agro-Environmental Science)

During the Study Tour in Tsukuba, July 9 (whole day)

Soil Monolith Museum in Tsukuba



Big soil monolith





Digital Soil Map

by Dr. Y. Takata (National Institute for Agro-Environmental Science)

During the Study Tour in Tsukuba, July 10 (morning)



Characteristics and problems of tropical soils

 Agriculture and Soil in South America by Dr. Shiozaki (Former JICA Expert)
 During the Study Tour in Tsukuba,
 July 10 (afternoon)

Chemical Changes of Soil Organic matters from Temperate zoon to Tropical zone

- Dr. YOSHIDA Masao
- Prof. (emer.) Ibaraki
 University
- Former JICA expert
- July 11 (Fri.)



Developments in Soil Diagnosis Instruments

- Visit Fujihira Co. Ltd in Tokyo
- July 14 (morning)



Fujihira Company, Tokyo



Guidance and Discussion on Interim Report (2)

- July 15 (morning)
- By the course leader, K. Tsutsuki

Visit Composting Facility in Sarabetsu Village

By Mr. K. Nakai (Sarabetsu Agr. Co-op)

July 16 (morning)

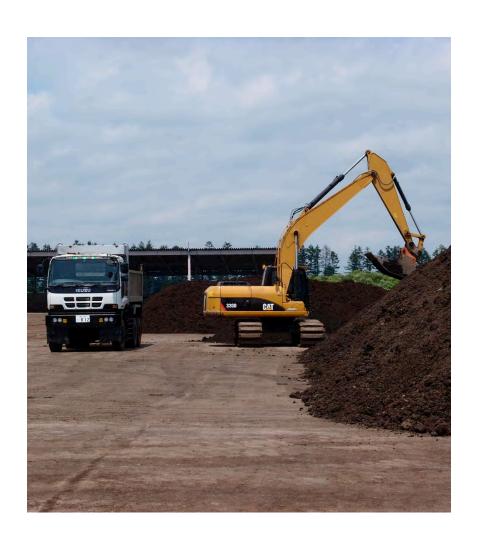




Composting techniques

- Effective Use of Agricultural Organic Wastes
- by Prof. K. Tsutsuki
 (Obihiro University of Agriculture and Veterinary

July 16 at OBIC



Environmental Conservation Agriculture in Japan

July 17

 Researchers, Dr. MORI, Dr.TAKENAKA, National Agricultural Research Center for Hokkaido Region

School Visit, July 18



Interim Report Preparation Rehearsal and the final discussion

- 22. July (morning)
- By the course leader, K. Tsutsuki

Historical transition of Fertilizers

- By Dr. S. Kiso
 (Hokuren Fertilizer Co. Ltd.)
- July 23, morning

Visit Fertilizer Company

Fertilizer production in the age of Environmental Conservation

Hokuren Fertilizer Company in Memuro town

July 23 (afternoon)

Evaluation of this course

- By the JICA staff
- July 24 (morning)

Interim Report Presentation

July 24 afternoon



Mr. Berisha from Kosova

Interim Report Presentation



Mr. Marco from Bolivia

Interim Report Part 1

- Review and Achievement of the Training Program (maximum 3 pages)
- * this part is for review the whole training program to share with your colleagues the contents of the training program.

Interim Report Part 2

- Action Plan (4-6pages)
- This part is to share specific techniques/ experience which you have strong interest and what you can do when you go back to your home country.
- Chose specific technique/experience which you will promote or disseminate in your organization and your area.

Include also in Interim Report

 What will you do after 5-10 years when you have a more responsible position, in order to improve the soil productivity and to develop sustainable agriculture in your country?

Final Report

 In 6 months after you go back to your country, you should submit a final report showing what you carried out to extend your achievements and experience during this course.

Closing Ceremony



Farewell party



Introduction of Course Leader

- Born in Okazaki, Central Japan in Dec. 1951.
- Until high school, I stayed in Okazaki
- Studied agricultural chemistry and soil science in Nagoya University. (BS:1970-74, MS: 1974-1976, Dr. Agr.: 1976-1979)
- Postdoctoral Fellowships (Nagoya University, IRRI Philippines, Hamburg University Germany) (1980-1984)

Introduction of Course Leader

- Assistant Prof. in Nagoya Univ (1984-1991)
- Assoc. Prof. in Obihiro Univ. of Agr. &V.Med. (1991-2002)
- Prof. of Soil Science in Obihiro Univ. of Agriculture (2002-2014)

Introduction of Course Leader (2)

Major Reseach field:

- Composition and characteristics of soil organic matter in soils.
- Organic matter in Peat soils
- Organic matter in volcanic ash soils
- Dynamics of organic matter (compost, slurry, green manure) in agricultural soils
- Organic matter dynamics in wetland water

Introduction of Course Leader (3)

Major Research Field (continued):

- Tropical degraded soils.
- Edible soils in Hokkaido
- Waste management in agricultural soils
- Use of Green Manure in Crop Field
- Effect of fulvic acid in agriculture
- New biogas fermentation method

My homepage

- I have made my own homepage last year.
- Files of my lectures given in this course and in other courses are also uploaded.

http://kt-woodpecker.digi2.jp/lecfile.html

You arrived Obihiro in such season



Harvest season of wheat is the time you leave Obihiro, Japan







